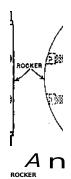
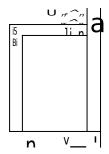
flat of the work, and then tapping it lightly, the jig is held securely in place. When drilling one of these half holes it is found that if an ordinary twist drill is used there is a tendency for it to "hog in," which is likely to result in breaking the tool. For this reason, it is desirable to use a straightfluted or farmer's drill, although good results may be obtained also by grinding a twist drill in such a way that it has no rake or hook resulting from the spiral form of the flutes. A drill which is ground in this way presents a square or slightly obtuse cutting edge to the work, thus doing away with the trouble experienced from drills breaking when ground in the usual way.





Machinery

Fig. 10. Drill
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When drilling the hole, the work is set up on end on the drill press table and the drill is fed through the bushing the usual way, bushing holding the drill in position until it starts to cut. As the drill is fed down, there is a tendency to force it away from the work, but this tendency is resisted by the hardened stud A so that the half hole is drilled parallel with the axis of the work. This jig affords a convenient means of quickly accomplishing this work and having the two half holes match up accurately, so that no difficulty is experienced in assembling the work.

Jig having Rockers upon which it is turned over. — The box drill jig shown in Fig. 10 was used for drilling three holes in a certain

piece that was to be produced in quantity. The jig is